

GORBOVITSKIY, S.Ye.; SHAKLEIN, I.A.

Tuberculosis control in the Ural region. Probl.tub. no.6:9-14
MAY 1981 (MIRA 14:9)

Y. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta tuberkuloza Ministerstva zdravookhraneniya RSFSR (dir. - prof. I.A. Shaklein).

(URAL MOUNTAIN REGION—TUBERCULOSIS—PREVENTION)

DOSYCHEV, Ye.A., kand.med.nauk; GORBOVITSKIY, S.Ye., prof., nauchnyy
rukovoditel'

Unconditioned vascular reflexes in patients with early stages
of syphilis. Vest.derm.i ven. [35] no.2:53-59 F '61.

(MIRA 14:3)

(SYPHILIS) (BLOOD VESSELS) (REFLEXES)

IL'IN, Iosif Izrailevich; GORBOVITSKIY, S.Ye., red.; LEBEDEVA, Z.V.,
tekhn. red.

[Nongonococcal venereal urethritis in men] Nagonokokkovye
venericheskie uretrity u muzhchin. Leningrad, Medgiz, 1962.
215 p. (MIRA 16:2)
(URETHRA--DISEASES) (VENEREAL DISEASES)

ARKHANGEL'SKIY, Sergey Petrovich, prof.; GORBOVITSKIY, S.Ye.,
red.; LEEDEVA, Z.V., tekhn. red.

[Venereal diseases] Venericheskie bolezni. Leningrad,
Medgiz, 1963. 47 p. (MIRA 16:5)
(VENERICAL DISEASES)

YABLENIK, Boris Semenovich, prof.[deceased]; GORBOVITSKIY, S.Ye.,
prof., red.; SHNEYDER, B.Ye., red.

[Psoriasis] Cheshuichatyi lishai. Leningrad, Izd-vo
"Meditrina," 1964. 178 p. (MIRA 17:4)

IVANOV, Nikolay Arsen'yevich; GORBOVITSKIY, S.Ye., red.; BUGROVA,
T.I., tekhn. red.

[Treatment of some dermatoses with corticosteroids] Leche-
nie kortikosteroidami nekotorykh dermatozov. Leningrad,
Medgiz, 1963. 181 p. (MIRA 16:11)
(SKIN--DISEASES) (ADRENOCORTICAL HORMONES)

GORBOVITSKIY, Ye. B.

GORBOVITSKIY, Ye. B. - "Vascular Reactions in Experimental Nephritic Hypertension and Experimental Hyperthyreosis." Sub 5 Feb 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

GORBOVITSKIY , Ye.B.

Change of reactivity of the circulatory apparatus in certain states of
high blood pressure in dogs. Tr. Vsesoium. obsh. fiziol. no. 1:140-141
1952. (CLML 24:1)

1. Delivered 29 December 1950, Moscow.

GORBOVITSKIY, Ye. B.

Effect of vasometer drugs on experimental thyrogenic hypertension. Tr. Akad. med. nauk SSSR. Vol.20;144-151
1952. (OIML 25:5)

1. Of the Pathological Physiology Laboratory (Head --
M.P. Nikitayev, Corresponding Member AMN USSR, deceased),
Institute of Therapy (Director -- A.L. Myasnikov Active Member
AMN USSR), Academy of Medical Sciences USSR.

PAVLOVA, N.Ya. (Moscow); SAMOYLOVA, Z.T. (Moscow); GORBOVITSKIY, Ye.B. (Moscow); NIKOLAYEV, M.P. chlen-korrespondent Akademii meditsinskikh nauk SSSR, nauchnyy rukovoditel'.

Visual complications in dogs in experimental renal hypertension. Arkh.pat.
15 no.2:75-76 Mr-Ap '53. (MLRA 6:5)

1. Kafedra farmakologii I Moskovskogo ordena Lenina meditsinskogo instituta.
2. Akademiya meditsinskikh nauk SSSR (for Nikolayev). (Sight) (Hypertension) (Kidneys--Diseases)

GORBOVITSKIY, E. B., GUROVA, E. V., DANIEL'SON, A. N., LE GHEV, R. S.,
MEDVEDEV, G. V., PERESTORONIN, S. A., SAVCHENKO, E. D., UHAK, V. I.,
SHISHKINA, I. D., LAPCHINSKIY, A. G., VIKTOROV, B. F.

Apparatus for the conservation of whole organs by chilling with artificial circulation and its use in experiments on transplantation of extremities and kidneys of dogs 177

Noyye khirurgicheskie apparaay i instrumenty i otryt ikh primeneniye (New SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1, Moscow, 1957. A collection of Papers of the Scientific Research Inst. for Experimental Surgical Equipment and Instruments.

NIIEKh A&I

Gorbovitskiy, E. B., Mushagyan, S. A., Il'inich, V. I., Filimonov, S. I., and
Martynov, L. N.

"A simple artificial respirator for experimental purposes."
Nove khirurgicheskie apparaty i instrumenty i opyt ikh primeneniya,
No. 2, 1961, p. 136
1958

GORBOVITSKIY, Ye. B.

MIKHLIN, N.D.; MEL'NIKOVA, G.K.; ZAYTSEVA, V.D.; NIKITINA, S.A.; GRITSMAN,
Yu.Ya.; GORBOVITSKIY, Ye.B.; KRYUCHKOVA, G.S.; KONDRAT'YEVA, N.I.

Effect of rubber on drugs and the body. Report No.1: Present-day
views on the subject. Med.prom. 12 no.2:35-41 F '58. (MIRA 11:3)

1. Nauchno-issledovatel'skiy institut resiny i Nauchno-issledovatel'-
skiy institut eksperimental'noy khirurgicheskoy apparatury i
ochrudovaniya.

(RUBBER--PHYSIOLOGICAL EFFECT) (DRUG INDUSTRY)

NIKHLIN, E.D., MEL'NIKOVA, G.K., ZAYTSEVA, V.D., NIKITINA, S.A., GRITSMAN,
Yu.Ya., GORBOVITSKIY, Ye.B., KRYUCHKOVA, G.S., KONDRAT'YEVA, N.I.

Effect of vulcanized rubber on drugs and the body. Report No.2.
Med.prom. 12 no.8:8-12 Ag '58 (MIRA 11:9)

1. Nauchno-issledovatel'skiy institut reziny i Nauchno-issledovatel'skiy
institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.
(RUBBER-PHYSIOLOGICAL EFFECT)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516110011-5

LAPCHINSKIY, A.G. and GORBOVITSKIY, Y.E.B.

"Experimental Transplantation of Preserved Kidneys and Extremities."

report presented at the 18th Congress of the Intl Society of Surgery, Munich, 13-20 Sep '5

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516110011-5"

GRITSMAN, Yu.Ya.; GORBOVITSKIY, Ye.B.

Kidney transplantation in clinical practice; the status of the
problem. Eksper. khir. 5 no.1:58-64 Ja-F '60. (MIRA 13:12)
(KIDNEYS--TRANSPLANTATION)

ANAN'YEV, M.G.; VAYNRIB, Ye.A.; GORBOVITSKIY, Ye.B.; KOZLOV, Yu.G.;
KASHCHEVSKAYA, L.A.; LEVITSKAYA, L.A.; COL'DINA, B.G.; SUPKO,
N.S.; IVANOVA, L.N.; UNIK, V.I.

"Artificial kidney" apparatus built by the Research Institute for
Experimental Surgical Apparatus and Instruments and the results of
using it in an experiment. Trudy NIEKHAI no.5:168-173 '61.
(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgi-
cheskoy apparatury i instrumentov.
(ARTIFICIAL KIDNEY)

GORBOVITSKIY, Ye. B.; KANTOR, F. M.

Bed-scales. Urologiia no.6:67-68 '61.

(MIRA 15:4)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov Ministerstva zdravo-
okhraneniya SSSR (dir. M. G. Anan'yev)

(MEDICAL INSTRUMENTS AND APPARATUS)
(KIDNEYS, ARTIFICIAL—EQUIPMENT AND SUPPLIES)

SOROKINA, M.I.; CHILINGARIDI, Ye.K.; KOZLOV, Yu.G.; GORBOVITSKIY, Ye.B.
(Moskva)

Treatment of acute renal insufficiency by hemodialysis using
an "artificial kidney" apparatus of Soviet manufacture. Klin.
med. no.3:27-31 '62. (MIRA 15:3)

1. Iz otdeleniya "iskusstvennaya pochka" I Moskovskogo ordena
Lenina meditsinskogo instituta (dir. - chlen-korrespondent AMN
SSSR V.V. Kovarov, glavnnyy vrach B.S. Bobov, nauchnyye rukovo-
diteli - zasluzhennyy deyatel' nauk prof. N.N. Yelanskiy i
prof. I.M. Epshteyn).
(RENAL INSUFFICIENCY) (KIDNEYS, ARTIFICIAL)

ANAN'YEV, M.G.; GORBOVITSKIY, Ya.B.; KOZLOV, Yu.G.; GOL'DINA, B.G.;
KASHCHEVSKAYA, L.A.; LEVITSKAYA, L.A.; IVANOVA, L.N.; SUPKO,
N.S.; TKACHENKO, A.S.; UNIK, V.I.

Study of and experience in the use of the Soviet artificial
kidney apparatus. Sov.med. 26 no.7:15-20 J1 '62. (MIRA 15:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov (dir. M.G.Anan'yev).
(KIDNEYS, ARTIFICIAL)

KULAKOV, G.P. (Moskva); MENDEL'SON, M.M. (Moskva); GORBOVITSKIY, Ye.B.
(Moskva); SIMOVSKIY, R.S. (Moskva)

Combined use of the artificial kidney and peritoneal dialysis.
Klin. med. 41 no.7:111-116 Jl'63 (MIRA 16:12)

1. Iz kafedry urologii (zav. - prof. A.P.Frumkin [deceased]
TSentral'nogo instituta usovershenstvovaniya vrachey, Bol'nitsy
imeni S.P.Botkina (glavnnyy vrach - dotsent Yu.G.Antonov) i
Nauchno-issledovatel'skogo instituta eksperimental'noy khirur-
gicheskoy apparatury i instrumentov (dir. M.G. Anan'yev).

GORBOVITSKII, Ya.B., kand. med. nauk (Moskva, ul. K. Marks'a, d.20, kv. 154) ; TIKHONOVA, Z.D.

Use of peritoneal dialysis in acute renal insufficiency. Vest. khir. 91 no.8tll4-ll7 Ag'63
(MIRA 17:3)

1. Iz urologicheskogo otdeleniya (zav. - kand. med. nauk P.D.Lev) 54-y Moskovskoy gorodskoy bol'nitsy (glavnyy vrach Ye. P. Mal'tseva).

KULAKOV, G.P.; MENDEL'SON, M.M.; SIMOVSKIY, R.S.; GORBOVITSKIY, Ye.B.
KOZLOV, Yu.M.

Use of the artificial kidney in acute renal insufficiency
following abortion. Akush. i gin. 39 no.3 1963 Je'63
(MIRA 17:2)

1. Iz kafedry urologii (zav. - zasluzhennyj deyatel' nauki
prof. A.P. Frumkin [deceased]) TSentral'nogo instituta usover-
shenstvovaniya vrachey Bol'nitsy imeni S.P. Botkina (glavnyy
vrach - dotsent Yu.G. Antonov) i Nauchno-issledovatel'skogo
instituta eksperimental'noy khirurgicheskoy apparatury i in-
strumentov (direktor M.G. Anan'yev).

GORBOVITSKIY, Ye.B.; SUPKO, N.S.; IVANOVA, L.N.

Study of the toxic properties of the Soviet-made cellophane membrane
for the "artificial kidney" apparatus. Biul. eksp. biol. i med. 56 no.
11:123-125 O [i.e. N] '63. (MIRA 17:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy khirurgii-
cheskoy apparatury i instrumentov (dir. M.G. Anan'yev) Ministerstva
zdravookhraneniya SSSR, Moskva. Predstavlena deystvitel'nym chlenom
AMN SSSR V.V. Parinym.

GORBOVITSKIY, Ye.B.; GOL'DINA, B.G.; UNIK, V.I.

Evaluation of the effectiveness of peritoneal dialysis. Biul.
eksp. biol. i med. 60 no.7:43-46 Jl '65. (MIRA 18:8)

1. Meditsinskiy otdel Nauchno-issledovatel'skogo instituta
eksperimental'noy khirurgicheskoy apparatury i instrumentov
(dirkotor- M.G. Anan'yev), Moskva.

GRABAROV, P.G.; GORBOVSKAYA, M.N.

Comparative evaluation of methods used for determining absorbed
sodium in carbonaceous soils. Izv. AN Kazakh. SSR, Ser. bot., i pochv.
no.2:46-53 '59. (MIRA 13:5)
(Soils--Analysis) (Sodium)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516110011-5

GIRBOVSKAYA, T.G.; SHERMET, Yo.G.; SOBOLEVSKAYA, O.P.; CHEMERINSKAYA, K.S.
MAYEVSKAYA, N.K.

In honor of professor K.A. Karysheva's 70th birthday. Vest. vjen. i
derm. no. 3:63 My-Je '54.
(KARYSHEVA, KSENIIA ALEKSANDROVNA, 1883-)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516110011-5"

GORBOVSKAYA, T. G.; CHEDERINSKAYA, K. S.; MAKOGONCHUK, P. A.

Preliminary data on the combined antibiotic therapy of chronic gonorrhea in
girls with combination of antibiotics. Vest. ven. i derm. no.5:43-46
S-0 '55 (MLRA 9:1)

1. Iz Kiyevskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo
instituta (dir. G. Ye Koryakin, nauchnyy rukovoditel' - prof. K. A. Karysheva)
i Kiyevskogo gorodskogo kozhno-venerologicheskogo dispansera (zav. A.S.
Ivanov)

(GONORRHEA, in infant and child
ther, antibiotics combination in girls)
(ANTIBIOTICS, ther. use
gonorrhoea in girls, combination ther)

GORBOVSKAYA, T.G.

Laboratory diagnosis of trichomoniasis. Akush. i gin. no5:
(MIRA 9:1)
72-74 S-0 '55.

1. Iz Kiyevskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo
instituta (dir. G.Ye. Koryakin)
(TRICHOMONIASIS
urogenital system, diag.)
(UROGENITAL SYSTEM,dis
trichomoniasis, diag.)

Gorbovskaya, T. G.

KARYSHEVA, K.A., professor; GORBOVSKAYA, T.G., kandidat meditsinskikh nauk;
SOBOLINSKAYA, O.P.

Asymptomatic gonorrhea in women and young girls. Vest. ven. i derm
30 no.1:40-45 Ja-F '56 (MLRA 9:4)

1. Iz otdela gonorrologii (zav.-prof. K.A. Karysheva) Kiyevskogo
nauchno-issledovatel'skogo koshno-venerologicheskogo instituta
(dir. G.Ye. Karyakin)
(GONORRHEA, ther.
asymptomatic, in women & small girls, ther.)

~~GORBOVSKAYA, T.G., MAKOGONCHUK, P.A.; POITORATSKIY, V.G.~~

Characteristics of bacterial flora in postgonorrhreal diseases of
urogenital organs in men. Vest.ven. i derm. 30 no.2:35-37 Mr-Ap '56.
(MLRA 9:7)

1. Iz bakteriologicheskoy laboratorii (zav.-kandidat meditsinskikh
nauk T.G.Gorbovskaya) Kiyevskogo nauchno-issledovatel'skogo dermatoto-
venerologicheskogo instituta (dir. G.B.Koryakin) i gonorroynogo
otdela Kiyevskogo ogorodskogo vendispansera (glavnnyy vrach A.S.
Ivanov)

(UROGENITAL SYSTEM, dis.
postgonorrhreal in men, bacterial flora in)

(GOMORRHEA
postgonorrhreal dis. of urogenital system in men
bacterial flora in)

GORBOVSKAYA USSR/General Problems of Pathology. Tumor.

T.G.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37043.

Author : Gorbovskaya, T.G., Makogonchuk, P.A.

Inst :

Title : To the Problem of the Role of the Nervous System in the Formation of Antigenic Complement Fixation Materials in Rabbits.

Orig Pub: v. sb. Sovrem. vopr. dermatol. Kiev Gosmedizdat. USSR.
1957, 43-46.

Abstract: Fivefold immunization with gonovaccine of rabbits kept intermittently under the effect of urethane-veronal sleep, produced a higher complement titer (CT; 1:1200 - 1:1500, in controls 1:200 - 1:800). Following a single immunization during uninterrupted sleep for 72 hours, antibody formation did not take place. Following stimula-

Card : 1/2

142

USSR/General Problems of Pathology. Immunity.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37043.

tion with caffeine the CT was 1:40. The level of
CT depended upon the site of inoculation of the anti-
gen: with intravenous injection - 1:800, subcutaneous -
1:200.

Card : 2/2

OSRODECKA T.G., ALEKSANDROVA, I.N., OSADCHAYA, Ye.I. (Kiev)
APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516110011-5"

Role of trichomonas hominis in the course of bacillary dysentery.
Vrach.delo no.11:1191-1193 N°58 (MIRA 12:1)

1. Institut infektsionnykh bolezney AMN SSSR:
(TRICHOMONAS)
(DISENTERY)

GOREOVSKAYA, T.G.; ALEKSANDROVA, N.N.

Microbial pattern of the sputum of pneumonia patients in the third
wave of the influenza pandemic. Zhur.mikrobiol.epid.i immun. 33
no.5:50-53 My '62. (MIRA 15:8)

1. Iz Instituta infektsionnykh bolezney AMN SSSR.
(SPUTUM) (PNEUMONIA) (INFLUENZA)

GORBOVSKIY, A., kand. istoricheskikh nauk

Old riddles of history and new hypotheses. Mauka i zhizn' 30
no.1:75-80 Ja '63. (MIRA 16:4)

(Historical research)

GORBOVSKIY, A., kand.istoricheskikh nauk

Old riddles of history and new hypotheses. Nauka i zhizn' 30
no.3:100-103 Mr '63. (MIRA 16:5)
(Earth—Surface) (Moon, Theory of)

GORBOVSKIY, A., kand. istoricheskikh nauk

Old riddles of history and new hypothesis (continuation),
Nauka i zhizn' 30 no.4:87-90 Ap '63. (MIRA 16:7)

(Earth) (Catastrophes(Geology))

GORBOVSKIY, A., kand. istoricheskikh nauk

Old mysteries of history and new hypotheses. Nauka i zhizn' 30
no.6:100-105 Ja '63. (MIRA 16:7)

(History—Curiosa and miscellany)

GORBOVSKIY, B.O.

[Equipment and operation of evaporating plants in the sulfate pulp industry]
Ustroistvo i obsluzhivaniye vyparnykh stantsii sul'fat-tseelliuloznogo proiz-
vodstva. Moskva, Goslesbumizdat, 1953. 189 p. (MLRA 6:9)
(Paper-making machinery)

BARANOV, Nikolay Aleksandrovich; GORBOVSKIY, Boris Grigor'yevich; SOLIUS,
N.G., retsenzent[deceased]; DENISOV, Yu.A., retsenzent; GRABOVSKIY,
V.A., red.; PROTANSKAYA, I.V., red. izd-va; VOLOKHONSKAYA, L.V.,
red. izd-va; VDOVINA, V.M., tekhn. red.

[Technology and automation of cellulose production] Tekhnologiya
i avtomatisqtsiia tselliulosnogo proizvodstva. Moskva, Goslesbum-
izdat, 1961. 471 p.
(Cellulose) (Automation)

SOV/124-57-4-4898

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 140 (USSR)

AUTHOR: Gorbovskiy, B. Ye.

TITLE: The Calculation of the Closing of Open-truss Bridge Girders With
Cantilever Assembly (Raschet zamykaniya balochnykh skvoznykh
proletnykh stroyeniy mostov pri navesnoy sborke)

PERIODICAL: Sb. nauch. soobshch. Saratovsk. avtomob.-dor. in-t, 1956, Nr 3,
pp 26-30

ABSTRACT: Bibliographic entry

Card 1/1

GORBOVSKIY, B.Ye., aspirant

Stability of elastic elliptic rings subjected to centered loads. Nauch.
dokl.vys.shkoly; stroi. no.1:88-92 '58. (MIRA 12:1)

1. Rekomendovana kafedroy stroitel'noy mekhaniki Saratovskogo avtono-
bil'no-dorozhnogo instituta.
(Elastic plates and shells)

~~GORBOVSKIY, B.Ya.~~

Stability of compressed bent arches subjected to uniformly distributed loads. Izv.vys.ucheb.zav.: stroi. i arkhit. no.5:3-10 '58.
(MIRA 12:1)

1. Saratovskiy avtomobil'no-dorozhnyy institut.
(Arches) (Strains and stresses)

GORBOVSKIY, B. Ye., Candidate Tech Sci (diss) -- "Nonlinear problems of movements and the stability of flexible rods". Moscow, 1959. 15 pp (Min Higher Educ USSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 130 copies (KL, No 25, 1959, 133)

GORBOVSKIY, B.Ye.

Sinking shafts or shells into sand. Transp. stroi. 12 no.4:
21-25 Ap '62. (MIRA 15:5)

1. Rukovoditel' Saratovskoy laboratori-stantsii Vsesoyuznogo
nauchno-issledovatel'skogo instituta transportnogo stroitel'stva.
(Bridges--Foundations and piers)

GORBOVSKIY, B.Ye., inzh.

Using a turbine drill stand for working cohesive ground in the
chamber of a shell. Transp. stroi. 14 no.4:12-15 Ap '64.
(MIRA 17:9)

L 26160-66

ACC NR. AP6017381

SOURCE CODE: UR/0230/65/000/011/0013/0015

AUTHOR: Gorbovskiy, B. Ye. (Candidate of technical sciences); Lyan, V. V. (Engineer);
Stepanov, A. I. (Engineer)

ORG: none

TITLE: Experience in submerging pilings in clay bottoms

SOURCE: Transportnoye stroitel'stvo, no. 11, 1965, 13-15

TOPIC TAGS: highway bridge, construction

ABSTRACT: In the construction of the Saratov highway bridge across the Volga cofferdams 4 and 5 meters in diameter were used to place the main supports through the sand covering the bottom from 1.5 to 18 m thick. Most of the bottom dirt moved was dug up with a 1.5 m³ bucket, after being loosened by a new design ripper, the EUR-3, produced by Lengiprotransmost and designed for cofferdams up to 3 meters in diameter. In this application, due to the larger size of the cofferdams used, the tool had to be modified to move horizontally to cover the entire area, instead of just vertically as it was designed to do. Experiments with explosive breaking of large rocks at two support locations were very successful. Two of the cofferdams ruptured during operation, the result of residual stresses in wet-welded joints. When the bottom was worked to diameter greater than the cofferdam before setting it down, in some cases sand flowed into the cofferdam as it

UDC: 624.157.21

Card 1/2

12
B
2

L 26460-66
ACC NR: AP6017381

was sunk, making work very difficult. Other problems encountered had to do with freezing of the ground at the bottom of the cof-ferdans in winter, drifting and resultant incorrect placement of pilings and lack of equipment to take care of rock inclusions encountered in the work. About 40 man-days were required for each meter of pile sunk. Orig. art. has: 3 figures. [JPRS] O

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 001

Card 2/2 88

GORBOVTSIEV, V.O.

Utilization of scraper conveyors. Masl.-zhir.prom. 19 no.5:32-33
'54. (MIRA 7:9)

1. Chinkentskiy maslozhirkombinat.
(Conveying machinery)

PERTSOV, G.I., kand.tekhn.nauk; KOVALEV, Ye.B., inzh.; GORBOVTSOV, R.B., inzh.

Determination of the heat emission of the frameworks of enclosed
asynchronous motors. Vest. elektroprom. 33 no.10:32-35
0 '62. (MIRA 15:9)
(Electric motors, Induction--Cooling)

(A) GORBULENKO, A. S.

The influence of forest strips on the soil. V. P. Blatko and A. S. Gorbuleenko. *Vokrodenie (Virology)* 1940, 313-24.—The soils of the forest strips at Kamenmaya steppe, government of Voronezh, were investigated with reference to their hydrologic and phys. properties as affected by the width of the shelter belts, which varied from 100.3 m. to 0.4 m., and the age of these, 47 to 2 yrs. The forest that begins to accumulate org. matter when the forest plantings reach the age of 5 yrs. A gradual increase in org. matter of the horizon takes place, the carbonate layer is lowered in the profile, and the structure is improved. The wider the strips of forest the higher the humic acid content. There is more humic than fulvic acid in the org. matter of the soils of the forest strips.
J. S. Joffe

GORBULEV, S.S.; FEDOROV, L.G.

Penicillin therapy of arsenical dermatites. Vest.ven. i derm. no.3:59
My-Je '53. (MLRA 6:7)

1. Belorusskiy kozhno-venerologicheskiy institut.
(Skin--Diseases) (Arsenic--Physiological effect) (Penicillin)

GOMBULEV, S.S., KOMOV, O.P.

Cerebrospinal fluid in syphilitics. Sbor.nauch.rab.Bel.nauch.-issl.
koshno-ven.inat. 4:236-240 '54 (MIRA 11:?)
(CEREBROSPINAL FLUID)
(SYPHILIS)

GORBULEV, S. S.

PROKOPCHUK, A.Ya., prof., GORBULEV, S.S.

Survey of systems for treating syphilis. Sbor.nauch.rab.Bel.
nauch.-issl.koshno-ven.inst. 4:243-246 '54 (MIRA 11:7)
(SYPHILIS)

GORBUKIN, S.S., SHIMANOVICH, A.N., FEDOROVA, L.G., ORLOVA, Z.I.

Prognostic significance of eosinophilia in the specific treatment
of syphilis. Sbor.nauch.rab.Bel.nauch.-issl.kozhno-ven.inst.
4:247-250 '54 (MIRA 11:?)
(SYPHILIS)
(EOSINOPHILIES)

GORBUNOV, S.S., CHERNYAK, E.N.

Results of treating syphilis patients according to the systems
used in 1948 and 1949-1951. Sbor.nauch.rab.Bel.nauch.-issl.
koshno-ven.inat. 4:315-319 '54 (MIRA 11:?)
(SYPHILIS)

GORBULEV, S.S.; PROKOPCHIK, Andrey Yakovlevich, red.

[Nonarsenical treatment of syphilis] Bezmysh'iakovistoe
lechenie sifilisa. Minsk, Gos.izd-vo BSSR, 1959. 137 p.
(MIRA 13:2)

(SYPHILIS)

GORBULEV, S.

News of mycology. Zdrav. Bel. 5 no.5:68-69 My '59. (MIRA 12:8)
(WHITE RUSSIA--MEDICAL MYCOLOGY)

CHERNYAK, E.N.; GORBULEV, S.S.; GRINGAUZ, M.Ya.

Prophylaxis of congenital syphilis. Zdrav.Belor. 5 no.6:50-51
Je '59. (MIRA 12:9)

1. Iz beloruskogo nauchno-issledovatel'skogo kozhno-venerolo-
gicheskogo instituta (direktor - akademik AN BSSR A.Ya.Prokopchuk).
(SYPHILIS, CONGENITAL, HEREDITARY, AND INFANTILE)

GORBULEV, S.S.

Pathogenesis and treatment of seroresistant syphilis. Sov. med. 24
no.4:129-131 Ap '60. (MIRA 13:8)

1. Iz Belorusskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. - akad. A.Ya. Prokopchuk).
(SYPHILIS)

GOREULEV, S.S., kand.med.nauk (Moskva)

Accelerated non-arsenical treatment of syphilis. Vest.derm.i
ven. no.11:32-35 '61. (MIRA 14:11)
(SYPHILIS) (PENICILLIN—THERAPEUTIC USE)

GORBULEV, S.S., kand.med.nauk

Observations on the treatment of syphilis without arsenic. Sov.
med. 25 no.5:114-117 My '61. (MIRA 14:6)
(SYPHILIS)

KISELEV, Oleg Aleksandrovich; GORBULEV, S.S., red.; GONCHAROVA, T.I.,
tekhn. red.

[Fungous skin diseases]Gribkovye bolezni kozhi. Izd.2. Mo-
skva, Medgiz, 1962. 27 p. (MIRA 16:1)
(SKIN--DISEASES) (FUNGI, PATHOGENIC)

GORBULEV, S. S., kand. med. nauk (Moskva)

Necessity for the compound treatment of syphilis. Vest. derm.
i ven. 36 no.6:44-46 Je '62. (MIRA 15:6)

(SYPHILIS)

GORBULEV, S.S., kand.med.nauk (Moskva)

Seroresistant syphilis. Vest. derm. i ven. 37 no.1:58-61
Ja'63. (MIRA 16:10)
(SYPHILIS—DIAGNOSIS)

GOREBULEV, V.A., inzhener.

Accelerated sinking of vertical mine shafts. Mekh.trud.rab. 11
no. 3:37 Mr '57. (MIRA 10:5)
(Shaft sinking)

GORBULEV, V.A., gornyy inzh.

Units in unsupported face areas. Ugol' 35 no.10:64-65 0'60.
(MIRA 13:10)

(Coal mining machinery)

GORBULEV, Yu.L.

Effectiveness of acupuncture in treating neuritis of the facial
nerve. Azerb. med. zhur. no.9:29-35 S '61. (MIRA 14:9)

1. Iz klinicheskoy bol'nitsy No.3 im. Dzhaparidze g. Baku (glavvrach -
I.G.Kadymov, nauchnyy rukovoditel' - dotsent A.D.Mustafayev).
(ACUPUNCTURE) (NERVES, FACIAL-DISEASES)

GORBULEV, Yu.L.

Acupuncture in treating neuritis of the facial nerve. Sbor.
trud. GMI no.9:225-231 '62. (MIRA 17:2)

1. Klinicheskaya bol'nitsa No.3 imeni Dzhabaridze, Baku
(glavnnyy vrach I.G. Kadymov).

GORBULEVA, T.N.; OKULOV, A.B.; MULINA, TS.I.

Diagnosis of underdeveloped lungs in children. Vest. rent. i rad.
40 no.6:16-20 N-D '65. (MIRA 19:1)

1. Rentgenovskoye i khirurgicheskoye otdeleniya Detskoy goredskoy
Klinicheskoy bol'nitsy No.2 imeni I.V. Rusakova i kafedra detskoy
khirurgii (zav. - prof. S.Ya. Doletskiy) TSentral'nogo instituta
usovershenstvovaniya vrachey, Moskva.

TYURIN, V.F., vedushchiy inzh.; GORBULEVA, Ye.A., red.; TORSHINA,
Ye.A., tekhn.red.

[Mechanization and automatization of welding processes; from
practices of the I.A.Likhachev Automobile Plant in Moscow]
Mekhanizatsiya i avtomatizatsiya svarki; iz opyta Moskovskogo
avtomobil'nogo zavoda im. I.A.Likhacheva. Moskva, TSentr.
biuro tekhn.informatsii, 1958. 21 p. (MIRA 12:8)

1. Russia (1917- R.S.F.S.R.). Moskovskiy gorodskoy ekonomi-
cheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.
(Welding--Equipment and supplies) (Automatic control)

KOLEGINTKOV, G.F., kand.med.nauk; GRIGOR'YEVA, L.V., kand.med.nauk; POTULOVA,
Ye.K.; SHCHIROVA, N.N.; GORBULEVA, Z.V.; GAZAREK, R.H.

Characteristics of the clinical aspects in the course of Bornholm
disease caused by Coxsackie virus B3. Sov.med. 28 no.4:52-56 Ap
'65.

(MIRA 18:6)

1. Institut kibernetiki AN UkrSSR (dir. - deyatel'nyy chlen
AN Ukrainskoy SSR V.M.Glushkov) Ukrainskiy nauchno-issledovatel'-
skiy institut kommunal'noy gigiyeny (dir. - prof. D.N.Kalyuzhnyy)
(glavnnyy vrach - N.N.Shchirova).

USSR / Cultivated Plants. Grains. Legumes. Tropical M-1
Cereals.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6230

Author : Molchadskiy, S. R.; Gorbulin, N. F.

Inst : Kuybyshev Agricultural Institute

Title : The Results of Experiments Concerning the
Agricultural Engineering and Testing of Corn
Varieties in 1955

Orig Pub : Izv. Kuybyshevsk. s.-kh. in-ta, 1957, 12, 29-36

Abstract : High yields of green stuff (209-234 cwt/ha)
and low yields of grain (2.2-7.3 cwt/ha) were
obtained with the following late ripening
varieties: Krasnodarskaya 6, ordinary Krasno-
darskaya of the Limimg type, and white dent
Osetinskaya. The Volzhskaya, Bessarabskaya,
Rozenbergskaya, Bezenchukskaya hybrid, early

Card 1/2

16

- USSR / Cultivated Plants. Grains. Legumes. Tropical M-1
Cereals.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516110011-5"

Abs Jour

: Ref Zhur - Biologiya, No 2, 1959, No. 6230

Gorets, white dent Khar'kov varieties produced
a low yield of green mass (138 - 184 cwt/ha)
but gave the highest yield of grain (12.3 - 15.9
cwt/ha). The best results in obtaining cobs
without husks are gotten from the Rumanian yellow
flint variety (28.8 cwt/ha), which is recommended
by the institute for seed sowings. The optimal
preceding crops for corn is "Rzhanishche" [variety of rye]
which should be sown in the first ten days of
May in the southern part of the oblast. It
should be sown in the second ten days of May
in the northern part of the oblast. -- N. G.
Buyakovitch

Card 2/2

Abs Jour : RZhBiol., No 6, 1959, No 24840

Author : Gorbulin, N. F.
Inst : Kuibyshev Agricultural Institute.
Title : Effect of the Feeding Area on the Corn Harvest
by Square-Nest Sowing Method.
Orig Pub : Izv. Kuybyshevsk. s.-kh. in-ta, 1958, 13, 29-34

Abstract : Data on field experiments in 1955-1956. To sow corn for grain, it is recommended to use the square-nest method (70 x 70 cm), leaving two plants in the nest; for silo, 2-3 plants, and for green fodder, 3-4 plants.

Card : 1/1

44

GORBUL'SKIY, G.F.

Control of the cupola charging level. Lit.proizv. no.7:36
Jl '62. (MIRA 16:2)
(Cupola furnaces—Equipment and supplies)

KOGAN, L.B.; GORBUL'SKIY, G.F.

Coefficient of friction during interaction between the casting
and the mold. Lit.proizv. no.11:34-35 N '62. (MIRA 15:12)
(Founding) (Friction)

KOMISSAROV, V.A.; KOGAN, L.B.; GORBUL'SKII, G.F.

Vibratory chill-casting machine. Biul.tekh.-ekon.inform.Gos.
nauch.-issl.inst.nauch.i tekhn.inform. no.2:20-21 '63.
(MIRA 16:2)
(Foundries--Equipment and supplies)

KOGAN, L.B.; NOVIKOV, I.I.; ZOLOTOREVSKIY, V.S.; GORBUL'SKIY, G.F.; PORTNOY, V.K.

Shrinkage cracks during iron casting in metal molds. Lit.proizv. no.4:
32-34 Ap '63. (MIRA 16:4)
(Die casting) (Thermal stresses)

S/128/63/000/004/003/004
A054/A126

AUTHORS: Mikhaylov, A.M., Gorbul'skiy, G.F., Zvirbulis, I.A.

TITLE: Improving the wear resistance of steel castings

PERIODICAL: Liteynoye proizvodstvo, no. 4, 1963, 37 - 38

TEXT: For this purpose the metal surface is alloyed with carbon-containing ferrro-chrome or manganese. Tests were carried out to improve this wear-resistant alloyed coating by addition of 4 - 6% corundum to the conventional alloys. The new coating was studied on samples and tractor parts, in comparison with castings of 30ГJL (30GL) and Г13JL (G13L) steels without alloyed surfaces. (The test results are given in block diagrams.) The coatings of ferrochrome with 4% corundum and the corundum-containing ferrochrome + manganese alloy - irrespective of the heat-treatment conditions - decrease the wear and tear of the casting by a factor of 15, compared with the conventional coating, and compared with non-surface-alloyed 30GL and G13L steel castings by a factor of 72 and 81, respectively. The new coating was also tested on track links produced in the Zavod Rabochiy metallist (Rabochiy Metallist Plant). The track links were coat-

Card 1/2

Improving the wear resistance of steel castings

S/128/63/000/004/003/004
A054/A126

ed with a dense 2 - 3 mm thick metal-corundum coating that formed a tight bond with the base metal. The wear of the corundum-coated track links was by a factor of 2.8 less than that on links coated with the conventional alloy. After 50 h operation the wear of the conventional track links was 1 - 2 mm, whereas no wear could be found on the experimental ones. If more than 6% corundum is added to the coating mixture, the efficiency of the coating layer deteriorates, most probably due to disintegration of the alloy in which case the corundum particles liberated promote the wear of the metal. There are 5 figures.

Card 2/2

GORBUL'SKIY, G.F.; KOGAN, L.B.

Effect of the wall thickness of permanent cast iron molds on their durability. Lit. proizv. no.10;20-22 O '63. (MIRA 16:12)

GORBUL'SKIY, G.F.; BOGDANOV, G.N.; VINOGRADOV, Yu.G.

Method of testing the heat resistance of materials for metal
molds. Lit. proizv. no.4:27-28 Ap '64.

(MIRA 18:7)

GOREBUL'SKIY, G.F.

Temperature of the surface layers of metal molds. Lit. proizv. no.9:
31-35 S '64. (MIRA 18:10)

KOGAN, L.B.; GORBUL'SKIY, G.F.; BUKOVSKIY, S.M.

Mold wash to avoid sand fusion on green molds. Lit. proizv.
no.11:39 N '64. (MIRA 18:8)

GORBUL'SKIY, I.Ya.; IVANOV, V.A.; ARTEM'YEV, V.F. redaktor, inzhener;
~~KALETINA, A.V.~~ redaktor, inzhener; DUGINA, N.A., tekhnicheskiy
redaktor.

[Induction hardening of motor vehicle and tractor parts] Induktsion-
naia sakalka avtotraktornykh detalei. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroitel'noi lit-ry, 1955. 119 p. [Microfilm] (MLRA 8:9)
(Metals--Hardening)

GORKUL'SKIY
GOL'DSHTEYN, Yakov Yefimovich; GORBUL'SKIY, Ilya Yakovlevich; PYATAKOVA,
Lyudmila Leonidovna; KUDRYAVTSEV, I.V., doktor tekhn.nauk, ratsenzent;
BEZUKLADNIKOV, M.A., insh., red.; DUGINA, N.A., tekhn.red.

[Increasing the wear of tractor parts] Povyshenie dolgovechnosti
traktornykh detalei. Moskva, Gos.nauchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1956. 225 p. (MIRA 11:1)
(Tractors--Maintenance and repair)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516110011-5

СЕРГІЙ СКІВІ

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516110011-5

SHITOV, A.P.; PIATAKOV, L.L.; GOREBUL'SKIY, I.Ya.; KULIKOV, I.M.;
KUMBAT, S.I.

Induction surface hardening of tractor block bushings instead
of through hardening. Prom.energ. 11 no.8:21-22 Ag '56.
(Cast iron--Hardening)

SOV/137-58-10-21605

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 164 (USSR)

AUTHOR: Gorbul'skiy, I.Ya.

TITLE: Certain Properties of Components Hardened by High-frequency Induction and Their Operational Behavior (Nekotoryye svoystva zakalennykh TVCh detaley i povedeniye ikh v ekspluatatsii)

PERIODICAL: V sb.: Prom. primeneniye tokov vysokoy chastoty. Riga, 1957, pp 155-164

ABSTRACT: An account of the results of laboratory investigations and employment of induction-hardened machine parts employed in the model "C-80" tractor. An empirical formula is proposed which expresses the R_C value of a layer hardened by HF induction as a function of its C content (within the limits of 0.15-0.75%): $R_C = 20 + 60(2C - 1.3C^2)$. It is found imperative that components which have been hardened by HF induction be annealed in a furnace in order to increase their tensile strength by 25-30%. Comparative abrasion tests indicate that maximal wear resistance may be achieved at an anneal temperature of $200^\circ C$ and an R_C of 54. A method was developed for HF induction hardening of crankshafts made of high-strength cast iron.

Card 1/1 1. Metals--Hardening 2. Induction heating--Effectiveness T.F.
 3. Metals--Heat treatment 4. Metals--Test results 5. Industrial equipment
 --Test results

GOL'DSHTEYN, Yakov Yefimovich, kand. tekhn. nauk; GORBUL'SKIY, Il'ya
Yakovlevich, inzh.; Prinimal uchastiye PYATKOVA, L.L., inzh.;
DUGINA, N.A., tekhn. red.

[Increasing the durability of tractor parts] Povyshenie dolgo-
vechnosti traktornykh detalei. Izd.2. Moskva, Gos.nauchno-
tekhn.izd-vo mashinostroit. lit-ry, 1961. 199 p.

(MIRA 15:2)

(Cast iron—Hardening) (Steel—Hardening)

GORBU'SKIY, F. A. and IA. E. GOL'DSHTEIN.

Magnitnoe ekranirovanie pri zakalke tokami povyshennoi chastoty. (Vestn. Mash., 1950, no. 11, p. 28-30)

(Magnetic screening in the process of hardening by high-frequency currents.)

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

GORBUL'SKIY, YA. KH.

110-10-15/18

AUTHOR: Gorbul'skiy, Ya.Kh., Engineer.

TITLE: The Design of Field Rheostats for Alternator Exciters.
(Raschet reostatov vozobuzhdeniya k vozbuditel'ym sinkhronnykh generatorov)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.10,
pp.72-75 (USSR)

ABSTRACT: The usual graphical and graphical-analytical methods of designing field rheostats for alternator exciters are laborious. Simplified methods are, therefore, used but these are apt to give an excessive number of steps in the rheostat. This article describes a procedure developed by the author which results in a smaller number of steps in the rheostat whilst maintaining standard smoothness of control. By the use of this method the number of steps in field rheostat type MUP-31 was reduced from 98 to 83 with a reduction in cost of 320 Roubles.

An expression is given for the voltage balance in the field circuit of a self-exciting d.c. generator. An expression is derived for the resistance of the field rheostat necessary to produce a given voltage at the exciter terminals. Investigations carried out by the author at the Kharkov Electro-mechanical Works (KhEMZ) showed that to ensure 2% smoothness of regulation of voltage on the terminals of a synchronous alternator it is necessary that the voltage on the exciter

Card 1/2

110-10-15/18

The Design of Field Rheostats for Alternator Exciters.

terminals on going from one step of the rheostat to the next should change by a geometrical series to the power of 1.04. This has been frequently verified in practice. Because of unavoidable manufacturing variations in both rheostats and machines it is best to take the value of the power as 1.025 - 1.03. An expression is then derived for the resistance of rheostat steps. A procedure for determining the rheostat resistance for any position of the contact brush is then explained.

Without making a detailed calculation it is often necessary to determine the number of steps required on the rheostat to produce a given smoothness of voltage control on the exciter terminals. A method of doing this is explained. It is found necessary in practice to increase the limits of voltage regulation by some 50%. By way of appendix an example is given of the calculation of the maximum and volume power of a rheostat. There are 3 Slavic references.

SUBMITTED: June 15, 1956.

AVAILABLE: Library of Congress

Card 2/2

GORBUL'SKIY, Ya.Kh., inzh.

Methods for calculating holding electromagnets with armatures
from a material with low magnetic permeability. Vest. elektroprom
34 no.6:61-63 Je '63. (MIRA 16:7)

(Electromagnets)

L-23179-66 EWT(m)/EWA(d)/EMP(t) ID/WB
ACC NM AP6006706 SOURCE CODE: UR/0292/64/000/010/0045/0047

AUTHOR: Gorbul'skiy, Ya. Kh. (Engineer)

ORG: none

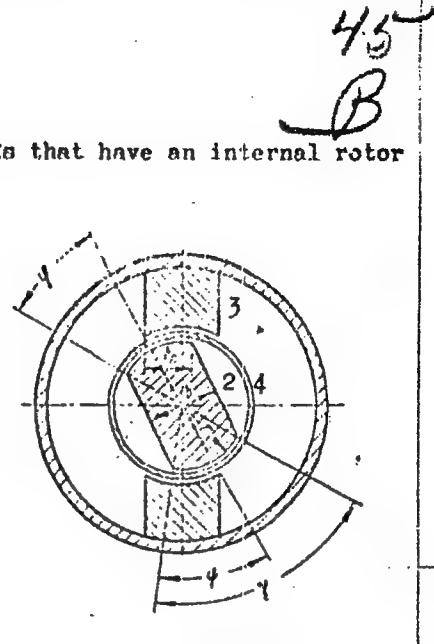
TITLE: Method of calculation of electromagnetic couplings that have an internal rotor made from a low-permeability material

SOURCE: Elektrotehnika, no. 10, 1964, 45-47

TOPIC TAGS: magnetic property, coupling circuit, electric rotating equipment part

ABSTRACT: A shielded electromagnetic coupling used for driving actuators situated in corrosive media is considered. Magnetic flux built by a field winding ensures interaction between the inner 2 and outer 3 rotors through sealing shield 4 which separates the corrosive medium from the atmosphere. The inner rotor is made from a low-permeability corrosion-resistant material such as Kh17 Steel. Formulas for the magnetizing-force components, torque, inner-rotor flux density, and magnetizing-force per unit torque are developed. A numerical example illustrates their use. Orig. art. has: 4 figures and 35 formulas.

YAC SUB CODE: 09 / SUBM DATE: none



UDC: 62-578.3.001.24

GORBULYA, V.T., master; OSTROVSKIY, A.I., inzhener.

Ash-collecting arrangement in the suction chambers of smokestacks. Emerge-
tik 1 no.3:14 Ag '53. (MLRA 6:8) (Chimneys)

GORBUNENKO, A. (Baku)

Shipyard fire brigade. Phoz.delo 4 no.12:24 D '58.
(MIRA 11:12)

(Shipyards--Fires and fire prevention)

L 07421-67 EWT(d)/EWP(c)/EWP(v)/EWP(k)/EWP(l) IJP(c)

ACC NR: AR6027568

SOURCE CODE: UR/0272/66/000/005/0192/0192

AUTHOR: Gorbunov, V. I.; Kuleshov, V. K.

TITLE: On the problem of selecting optimum scintillator dimensions for flaw detection in manufactured articles

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 5.32.1401

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 138, 1965, 42-48

TOPIC TAGS: flaw detection, scintillator, quantum yield, luminescence, x radiation

ABSTRACT: Experimental data are given on luminescence yield as a function of the height of NaI(J1) and Cs(J1) scintillators for radiation at energies from 30 kev to 30 Mev from a URPO-70-4 x-ray tube. The following conclusions are made: the luminescence yield of the scintillators is definitely dependent on height and the form of treatment; there is a definite height for each registered energy which is optimum from the standpoint of maximum luminescence yield; this height is determined by the coefficients μ and ν ; the coefficient ν is dependent apart from all other factors on the type of treatment of the scintillator surfaces. 6 illustrations, bibliography of 4 title.
[Translation of abstract]

SUB CODE: 2a 13, 20

Card 1/1 *do*

UDC: 539.1.074.3:620.179.152

86757

S/120/60/000/006/033/045
E032/E314*21.5200 (1033, 1144, 1191)***AUTHORS:** Aleksandrov, Yu.A., Delone, N.B., Likhachev, V.M.
and Gorbunkov, V.M.**TITLE:** On the Rate of Growth and the Rate of Upward Drift
of Bubbles in a Propane Chamber**PERIODICAL:** Pribory i tekhnika eksperimenta, 1960, No. 6,
p. 120**TEXT:** It was shown in previous papers by the present
authors (Refs. 1, 2) that when particle tracks in bubble
chambers are photographed, the object which is photographed
is the virtual image of the source in the bubbles. The
experiment described in Ref. 2, in which two sources of
illumination were employed will also provide information about
the rate of growth and the rate of upward drift of bubbles.
The experiments reported in the present note were similar to
those described in Ref. 2 (see the previous abstract of this
issue), except for the sources of illumination. Two pulsed
lamps were used to illuminate the two sources using a delay
of 7, 14, 22 and 30 μ s, respectively. A photograph of two

Card 1/4

86757

S/120/60/000/006/033/045
E032/E314

On the Rate of Growth and the Rate of Upward Drift of Bubbles
in a Propane Chamber

successive flashes of the lamps was obtained on each plate. During the time between the flashes each bubble increases in size and drifts upwards. The growth of the bubble leads to an increase in the distance between the dots in the horizontal direction, while the upward drift leads to a displacement of the dots in the vertical direction. A typical photograph is shown in Fig. 1. The radius of the bubbles was measured by the method described in Ref. 2. In the four series of measurements which were carried out the initial radius was between 0.1 and 0.2 mm and the final radius between 0.2 and 0.36 mm. According to Seitz (Ref. 3), the radius in mm is related to the time in sec by the formula $r = Ct^{1/2}$. The value obtained for the constant is : $C_{\text{exp}} = (5.8^{+2.6}_{-1.2})10^{-2}$.

Card 2/4